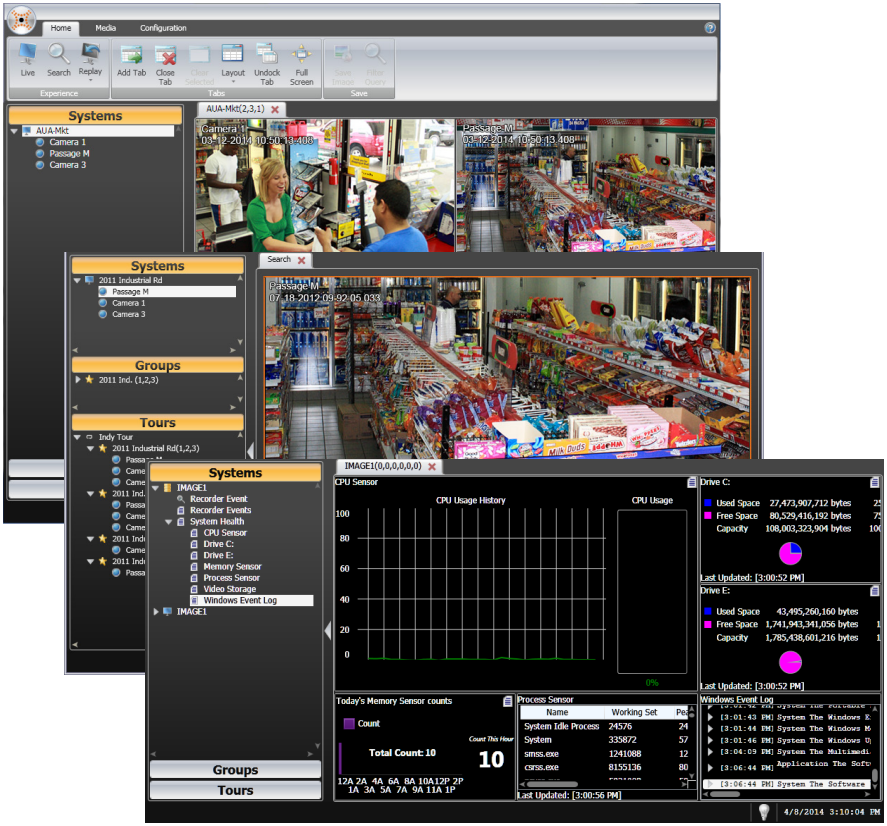
DIGIOP®
Intelligence Inspired

DIGIOP® Connect V8.8 Software User Manual

Products: DH Series, DM Series Hybrid DVRs
DI Series, NT Series NVRs



Please read this manual before using your software, and always follow the instructions for proper use. Save this manual for future reference.

DO_Connect_V8.8_SM
5/22/14

Revision History

Date	Reason for Change
8/16/12	Initial release.
11/2/12	Includes DIGIOP® Connect V8.5 features.
5/14/13	Includes DIGIOP® Connect V8.6 features.
9/20/13	Includes DIGIOP® Connect V8.7 features.
5/22/14	DIGIOP® Connect V8.8 initial release

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SECTION 1
Introduction

DIGIOP® Connect V8.8 software is a unified dashboard for the DIGIOP® Control NVR/hDVR that beautifully displays numerous video and from multiple sites together in single screen. It can also report the various data elements of DigiopData and System Health data (CPU usage, HDD usage, Windows Event Log, etc.). DIGIOP® Connect allows you to have a virtual presence in all your locations and to remotely manage your facilities, property and assets; cash and inventory; customers and employees; and processes and operations. DIGIOP® Connect uses a tabbed design with many flexible layouts of up to 32 video and data sources per tab.

With powerful search tools like Thumbnail Search, Timeline Search, Replay Search, Digital Zoom, and Tours, DIGIOP® Connect makes finding the video or data you need simpler than ever before. Once you've located that segment of video or data, save and export it for offline use with just a click.

1.1 Installing DIGIOP® Connect

DIGIOP® Connect can be installed on Microsoft® Windows® XP Professional with SP3, Windows Vista, 7, and 8.

DIGIOP® Connect is pre-installed on pre-configured DIGIOP ELEMENTS™ severs, and is provided on the Recovery Media flash drive with those systems. It is also provided on the Application disk DVD with the DIGIOP ELEMENTS™ software-only installation product, and on *infinias.com*, *Supercircuits.com,* through the DIGIOP software update website (at the release of this document, the software update URL was *softwareupdates.digiop.com/hotfix/*), and may be available through DIGIOP® certified dealer websites.

1.1.1 Installing DIGIOP Connect from a DVD

DIGIOP® Connect is provided on the Application disk DVD included with the DIGIOP ELEMENTS Software-only installation Package.

During the installation process, the DIGIOP® Connect installer will load Microsoft .NET Framework 4.0, if not previously installed.

1. Insert the Application disk into a DVD drive on your computer and allow it to open automatically. If the disk does not open automatically, open the disk in Windows Explorer, then execute the file **runApplicationCD.exe**.

DIGIOP Application CD
DIGIOP™
Install Software
View Documentation
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WWW.DIGIOP.COM | 1.866.496.5783

2. Click the **Install Software** bar.

3. In the Install Software screen, click the **DIGIOP® Connect** option on the left.

DIGIOP Application CD
DIGIOP™
Install Software
DIGIOP ELEMENTS™ Server
v. 8.8.201.0
DIGIOP® Connect
v. 8.8.201.0
Adobe Acrobat Reader
Install the client component of DIGIOP ELEMENTS™. The client component consists of DIGOP® Connect.
DIGIOP ELEMENTS™ requires Windows XP or newer with the latest service pack installed.
Install DIGIOP® Connect
View Documentation
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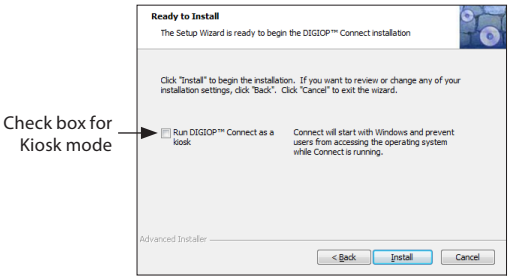
4. Click the **Install DIGIOP® Connect** button and follow the screen prompts to install it on your computer.

   DIGIOP® Connect can be installed in one of two modes: normal (default) mode, and **Kiosk** mode.

   — **Default** mode: In this mode, DIGIOP® Connect can be opened and closed similar to most Windows applications.
   — **Kiosk** mode: In this mode, the application starts automatically after a Windows user logs in and runs in full-screen mode. DIGIOP® Control users who login to Connect without the **System Configure** permission (see the *DIGIOP® Control V8.8 User Manual* for more information) can logout of Connect, but cannot close the application or access the Windows desktop. Users with **System Configure** permission can close the application and access the Windows

desktop when they logout. To use Kiosk mode, it must be selected during the installation of DIGIOP® Connect.


Ready to Install
The Setup Wizard is ready to begin the DIGIOP™ Connect installation
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Check box for Kiosk mode
Run DIGIOP™ Connect as a kiosk
Connect will start with Windows and prevent users from accessing the operating system while Connect is running.
Advanced Installer
< Back
Install
Cancel

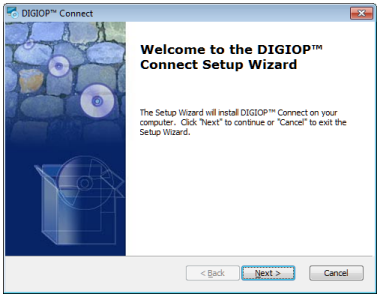
5. After you the software is installed, the DIGIOP® Connect icon (see below) will appear on the desktop and an entry will be added to the Windows Start Menu.

1.1.2 Installing DIGIOP Connect with an installation file

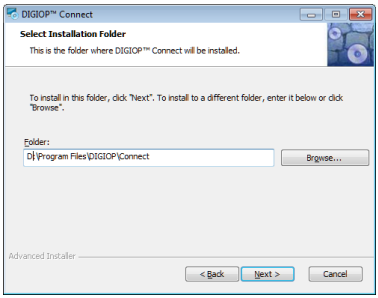
The DIGIOP® Connect installer file is provided in both an x86 version (for 32-bit operating systems), and an x64 version (for 64-bit operating systems). Install the version appropriate for your operating system. During the installation process, the DIGIOP® Connect installer will load Microsoft .NET Framework, if not previously installed.

1. Find the DIGIOP® Connect installer file on the Recovery Media flash drive or web site, then copy it to your computer. The file will appear as both of the following:
   DIGIOP_Connect_x86InstallerWeb.exe (for 32-bit operating systems)
   DIGIOP_Connect_x64InstallerWeb.exe (for 64-bit operating systems)

2. Double click the installer file to begin the installation. The Setup Wizard will open. Click **Next** to continue.


DIGIOP™ Connect
Welcome to the DIGIOP™ Connect Setup Wizard
The Setup Wizard will install DIGIOP™ Connect on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
< Back
Next >
Cancel

3. In the **Select Installation Folder** window, browse to the location where you want to install Connect, then click **Next**.


DIGIOP™ Connect
Select Installation Folder
This is the folder where DIGIOP™ Connect will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
D:\Program Files\DIGIOP\Connect
Browse...
Advanced Installer
< Back
Next >
Cancel

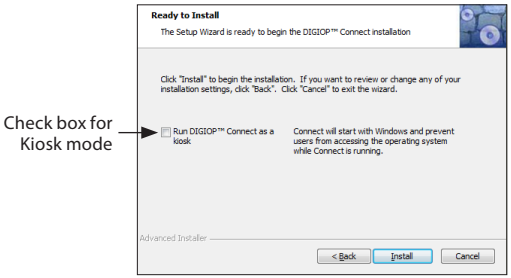
NOTE

DIGIOP® Connect can be installed in one of two modes:

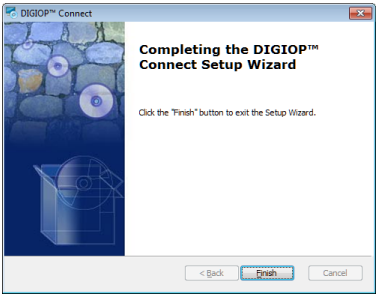
Default *mode: In this mode, DIGIOP® Connect can be opened and closed similar to most Windows applications.*

Kiosk *mode: In this mode, the application starts automatically after a Windows user logs in and runs in full-screen mode. Users with* **System Admin** *permission can close the application and access the Windows desktop when they logout. To use Kiosk mode, it must be selected during the installation of DIGIOP® Connect.*

4. Check the ***Run DIGIOP® Connect as a kiosk*** if the computer will be provided as access to the system as a kiosk machine, then click **Next** to continue.


Ready to Install
The Setup Wizard is ready to begin the DIGIOP™ Connect installation
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Run DIGIOP™ Connect as a kiosk
Connect will start with Windows and prevent users from accessing the operating system while Connect is running.
Advanced Installer
< Back
Install
Cancel
Check box for Kiosk mode

5. When the **Completing the DIGIOP® Connect Setup Wizard** screen appears, click **Finish** to close the wizard.



After you the software is installed, the DIGIOP® Connect icon (see below) will appear on the desktop and an entry will be added to the Windows Start Menu.

1.1.3 Initial check for software updates

By default, DIGIOP® Connect will automatically check for updates after login. Updated software ensures that you have the most recent enhancements for both the DIGIOP® Connect software and online help. The automatic update feature can be disabled (see below).

NOTE *Installing a DIGIOP® Connect software update retains all configuration settings (including video and data source settings) made previously. Connect software requires internet access.*

To update the initial installation of DIGIOP® Connect software

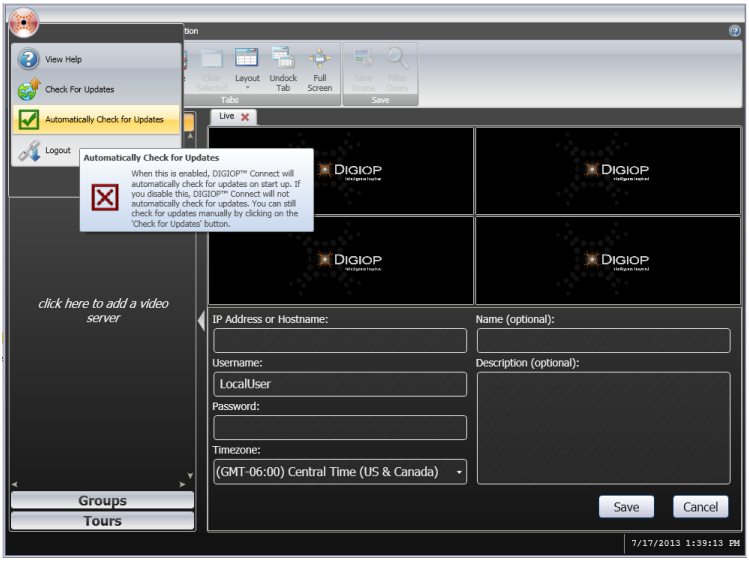
1. Launch DIGIOP® Connect by double clicking the desktop icon or opening it from the Start menu. The DIGIOP® Connect login window will open.

2. Click **Login** to start DIGIOP® Connect. (Initially, no Username and Password is required to login to DIGIOP® Connect.) If a newer version of DIGIOP® Connect is available, follow the on-screen instructions to install it.

1.1.4 Automatic software updates

Automatic DIGIOP® Connect software updates are enabled by default. The first time this software is used, it checks newer versions of the software, and updates itself automatically. To perform this check whenever DIGIOP® Connect is launched, skip this procedure. To disable this feature, do the following:

1. After logging into DIGIOP® Connect, click the icon in the upper left corner of the DIGIOP® Connect window.



2. In the drop-down window, if the option **Automatically Check for Updates** is checked, click it to disable the option. The checkbox will be replaced by an X-box icon.

NOTE *If the option to **Automatically Check for Updates** is disabled, it is highly recommended to manually check for updates periodically. To manually check for updates, click the **Check for Updates** option in the drop-down list.*

1.1.5 Manual check for software updates

You can check for software updates at any time after logging into DIGIOP® Connect. You must have access to the Internet from your computer to perform this check. Do the following:

1. Log into DIGIOP® Connect using the Site "**(local)**". See the **Connect Login window** above.

2. Click the icon in the upper-left corner of the DIGIOP® Connect window, click **Check for Updates**.
   - If your software is up to date, a pop-up window will open. Click **OK** to close the window.
   - If an update is available, a new window will open through which you can select and install the update.

1.2 Login options

Local and remote access to DIGIOP ELEMENTS™ systems provides all the privileges assigned to your username, including all Groups and Tours you are permitted to use.

1.2.1 Login with DIGIOP® Connect installed on a DIGIOP server

DIGIOP ELEMENTS™ systems include DIGIOP® Connect. To launch DIGIOP® Connect and log into DIGIOP ELEMENTS™:

1. Launch DIGIOP® Connect by double clicking the Connect application icon on the desktop.

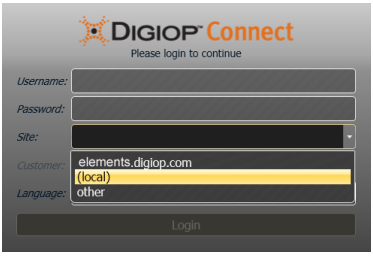
2. In the Login window, enter your **Username** and **Password**. Ensure that the ***Site*** field shows **localhost**, and the ***Customer*** field shows **digiop**. See below.

3. Click Login to open the DIGIOP® Connect main window.

1.2.2 Login using DIGIOP® Connect installed on a remote PC

For DIGIOP® Connect installed on a remote PC, three types of ***Site*** login options are available:

- **(local)**: This type of site login allows you to setup access to several DIGIOP® Video and Data servers. Connections to video and data servers, including your username and password for each NVR/hDVR, are setup after you enter DIGIOP® Connect and are saved on the computer you logged in with. These connections are saved on the computer you logged in with, and appear automatically in the **Systems** list in the left frame during subsequent **(local)** logins.



- **elements.digiop.com**: This login option is used when infinias™ provides the hosted services for your DIGIOP® NVRs and hDVRs. Your account will have a unique Customer name assigned by infinias™ (enter into the **Customer** name field), and your connection settings,users, permissions, tours and groups setup, etc. are saved on a server at infinias. This type of login allows you to automatically retrieve these settings from any computer you log in from, and view and manage Notification data.
- **other**: Use this type of login to a single DIGIOP® NVR or hDVR. When you use this option, you access both the video and data servers of your DIGIOP® system.

Using the (local) login option

1. Launch DIGIOP® Connect by double clicking the desktop icon or opening it from the Start menu. The DIGIOP® Connect login window will open.

2. Open the **Site** drop-down menu and select **(local)**.

3. Click **Login** to open DIGIOP® Connect.

4. Manually define the Video and Data Servers for the systems you want monitor (**Configuration | Add**).

Using the elements.digiop.com (DIGIOP hosted) login option

1. Launch DIGIOP® Connect by double clicking the desktop icon or opening it from the Start menu. The DIGIOP® Connect login window will open.

2. In the Login window, open the **Site** drop-down menu and select **elements.digiop.com**.

3. Enter your Username and Password in the appropriate fields. Your access to a DIGIOP® NVR or hDVR provides all the privileges assigned to your username, including all Groups and Tours you are permitted to use.

4. In the **Customer** field, enter the name assigned to you by infinias™ for the NVR/hDVR(s) you want to access.

5. Click **Login** to open DIGIOP® Connect.

Using the "other" site login option

1. Launch DIGIOP® Connect by double clicking the desktop icon or opening it from the Start menu. The DIGIOP® Connect login window will open.

2. In the Login window, open the **Site** drop-down menu and select **other**, then overwrite it with the IP address or DNS name of the DIGIOP® server you want to connect to.

3. Enter your username and password for the NVR/hDVR you want to connect to. Your access to a DIGIOP® NVR or hDVR provides all the privileges assigned to your username, including all Groups and Tours you are permitted to use.

NOTE *The URL LOCALHOST and IP address 127.0.0.1 both direct the application to the same computer you are using (local machine).*

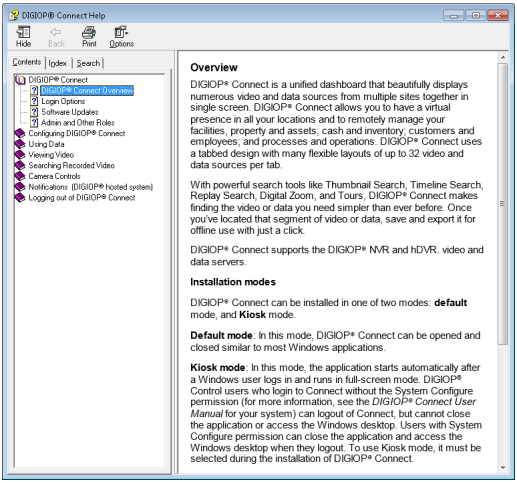
4. In the Customer name field, enter **digiop** for DIGIOP® servers.

5. Click **Login** to open DIGIOP® Connect and login to the Video and Data Servers in the system.

1.3 DIGIOP® Connect Help

Help is available within the DIGIOP® Connect software window. To access the Help feature:

1. Either click the Help icon in the upper right-hand side of the DIGIOP® Connect window, or click the DIGIOP® icon in the upper left corner and then select View Help. The DIGIOP® Connect Help window will open.

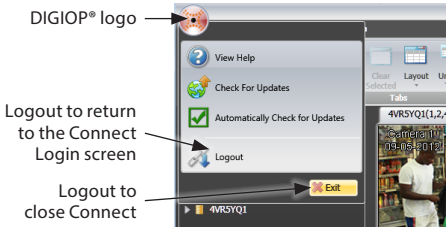

DIGIOP® Connect Help
Hide
Back
Print
Options
Contents
Index
Search
DIGIOP® Connect
DIGIOP® Connect Overview
Login Options
Software Updates
Admin and Other Roles
Configuring DIGIOP® Connect
Using Data
Viewing Video
Searching Recorded Video
Camera Controls
Notifications (DIGIOP® hosted system)
Logging out of DIGIOP® Connect
Overview
DIGIOP® Connect is a unified dashboard that beautifully displays numerous video and data sources from multiple sites together in single screen. DIGIOP® Connect allows you to have a virtual presence in all your locations and to remotely manage your facilities, property and assets; cash and inventory; customers and employees; and processes and operations. DIGIOP® Connect uses a tabbed design with many flexible layouts of up to 32 video and data sources per tab.
With powerful search tools like Thumbnail Search, Timeline Search, Replay Search, Digital Zoom, and Tours, DIGIOP® Connect makes finding the video or data you need simpler than ever before. Once you've located that segment of video or data, save and export it for offline use with just a click.
DIGIOP® Connect supports the DIGIOP® NVR and hDVR. video and data servers.
Installation modes
DIGIOP® Connect can be installed in one of two modes: default mode, and Kiosk mode.
Default mode: In this mode, DIGIOP® Connect can be opened and closed similar to most Windows applications.
Kiosk mode: In this mode, the application starts automatically after a Windows user logs in and runs in full-screen mode. DIGIOP® Control users who login to Connect without the System Configure permission (for more information, see the DIGIOP® Connect User Manual for your system) can logout of Connect, but cannot close the application or access the Windows desktop. Users with System Configure permission can close the application and access the Windows desktop when they logout. To use Kiosk mode, it must be selected during the installation of DIGIOP® Connect.

2. Each item in the Contents tab can be expanded by clicking the + symbol. Clicking the - symbol collapses the content. Index and Search methods are also available within Help.

1.4 Logout

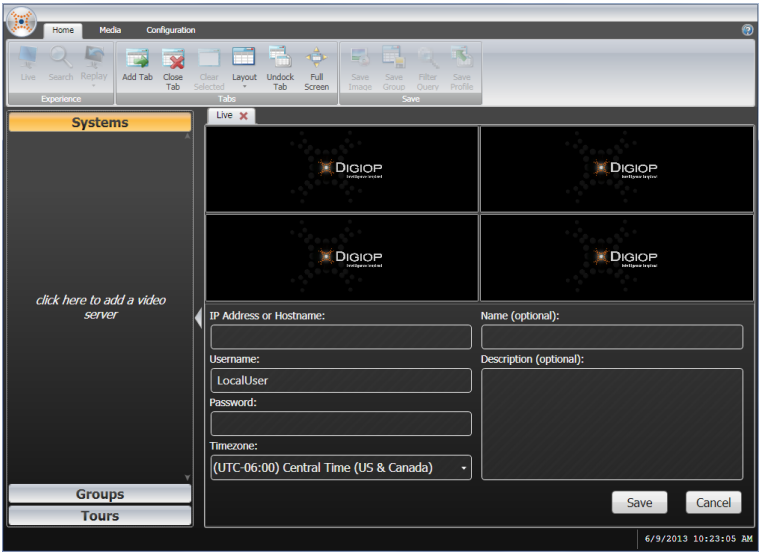
DIGIOP® Connect provides three ways to logout:

- Logout and return to the DIGIOP® Connect login screen (default or Kiosk mode installation): Click the DIGIOP® logo in the upper left corner of the DIGIOP® Connect application window, then select Logout.
- Logout and close DIGIOP® Connect (default installation): Click the window close icon ( )in the upper right corner of the DIGIOP® Connect application window.
- Logout and close DIGIOP® Connect (Kiosk mode installation): For users with users **with System Configure** permission, click the window close icon ( )in the upper-right corner of the DIGIOP® Connect application window. For users **without System Configure** permission, the window close icon does not appear; they can only logout as described above and return to the login screen.



SECTION 2
Configuring DIGIOP® Connect

When DIGIOP® Connect is launched and you access your system through a "**(local)"** connection for the first time, a server configuration menu is displayed. After the initial Video Server is configured, Video Servers and Data Servers can be added by following the steps in the Adding Additional Sources section.



Source Management Tab View

2.1 Initial server configuration (after "(local)" login)

To enter a Video Server or Data Server with DIGIOP® Connect after the initial installation, perform the following steps:

1. Launch DIGIOP® Connect by double clicking the DIGIOP® Connect icon on the desktop.

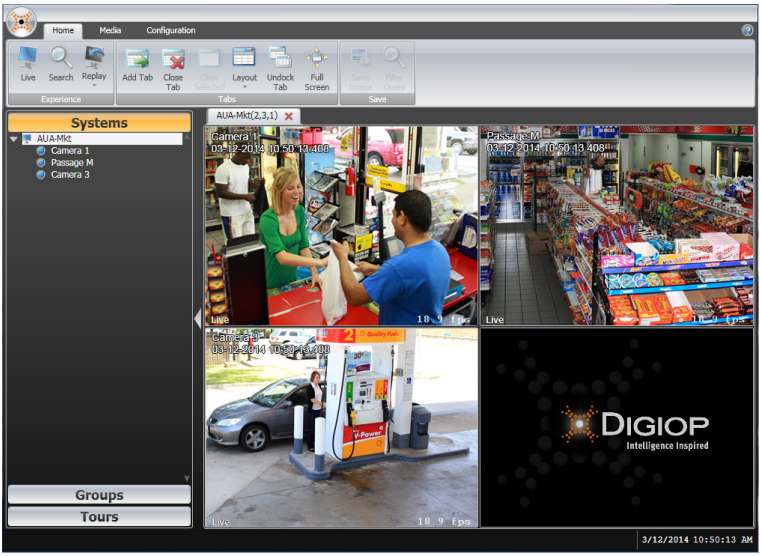
2. Click **Login**.

3. Enter the Video Server or Data Server configuration fields with the information necessary to identify your source. It may include:
   - **IP Address or Hostname** – The IP address or the host name of the Video Server or Data Server
   - **Username** – The username that is to be used to access the Video Server or Data Server

- **Password** – The password associated with Username
- **Port** – (Data Servers only). Enter the TCP/IP port number that DIGIOP® Connect will use to connect to a, DIGIOP® Data Server. The default port number is 24752.
- **Time zone** – Open the drop down list, then select the time zone where the Video Server or Data Server is located.
- **Name** (optional) – The name that identifies the Video Server or Data Server within DIGIOP® Connect.
- **Description** (optional) – Enter a description of the system or other information.

4. Click **Save**. DIGIOP® Connect will connect to the Video Server or Data Server and display the Name in the left panel Systems list.

5. Drag objects from the video server (video channels, see below) or data server (see cover screen) into the viewing cells.

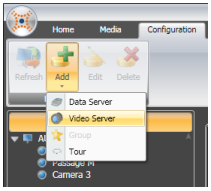


2.2 Adding additional sources (after "(local)" login)

To add additional DIGIOP® video or data servers to DIGIOP® Connect:

1. Click the **Configuration** tab.

2. Click the down arrow on the **Add** icon, and then select one of the following options:
   - **Data Server** – Select this to add a data source from a DIGIOP® server. The DIGIOP® data elements include DigiopData data streams and system monitoring elements such as a CPU Sensor, Windows Event Log, Memory manager, etc.
   - **Video Server** – Select this to add an NVR. It allows the viewing of individual cameras.



3. Enter the configuration fields with the information necessary to identify your source.

4. Click **Save**. DIGIOP® Connect will connect to the video or Data Server, and display the Name in the left panel Systems list.

2.3 Editing and deleting sources (after "(local)" login)

To edit a source, perform the following steps:

1. Click the **Configuration** tab.

2. Select (click to highlight) the item within the Systems or Groups lists to be edited.

3. Click **Edit**.

4. Make the necessary changes to the information in the configuration fields, and then click **Save**.

To delete a source, perform the following steps:

1. Click the **Configuration** tab.

2. Select (i.e., click to highlight) the item to be deleted within the Systems or Groups lists.

3. Click **Delete**.

4. Click **OK** to confirm the deletion.

2.4 Update sources

The Refresh feature updates the DIGIOP® Connect window after changes were made to the video or data sources. For instance, if a camera name in a Video Server to which DIGIOP® Connect is connected was changed, the new name will appear after the DIGIOP® Connect window is refreshed. Two kinds of updates are available:

- **Update** - Download only changes since the last **Update** or your DIGIOP® Connect login.
- **Full Refresh** - Download all current data (may take several minutes).

To perform a refresh, do the following:

1. Click the **Configuration** tab.

2. Select the source to be updated within the Systems or Groups lists.

3. Click **Update** (refresh) to update the system configuration.

2.5 Create User Profile

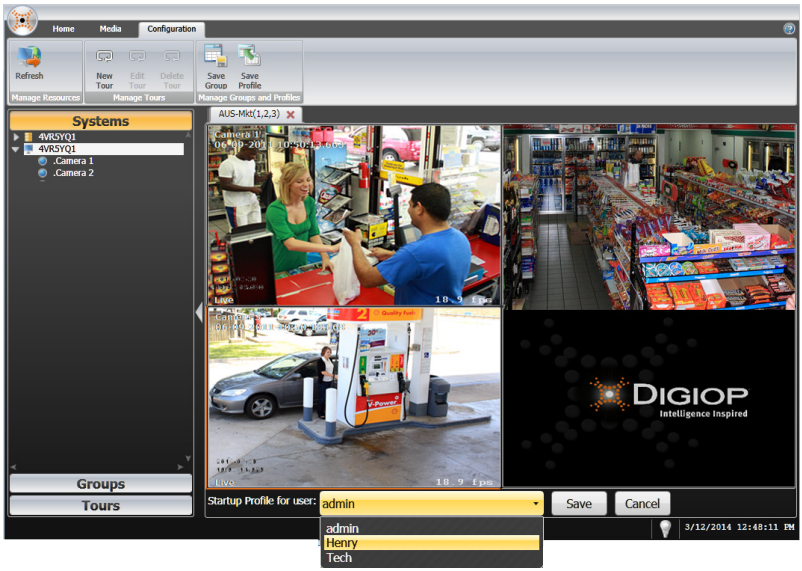
Users with System Configure privilege can create user profiles through DIGIOP® Connect. Profiles are pre-configured display setups that appear when the user (Username) logs in or refreshes the Connect display. Any IMA NVR user can log into the IMA NVR using Connect.

To create a profile, do the following:

1. Log into DIGIOP® Connect with your Username and password.

2. Setup a tab with a camera and/or data view configuration you want to assign to your username.

3. Click the **Configuration** tab, then click **Save Profile**.



4. At the bottom of the Connect window, open the Startup Profile for user: drop-down list, then click the username you want to assign the profile to. In the example above, username Henry was selected.

5. Click **Save** to retain your profile.

SECTION 3
View Video and Data Streams

With DIGIOP® Connect you can view:

- **DIGIOP® Video Server**: This represents a DVR and will allow the viewing of individual cameras.
- **DIGIOP® Data Server:** Use this option to add a data source from a database or third party software. (Data sources may include cash register point of sale, electronic access control, time and attendance, video analytics, or other systems.)

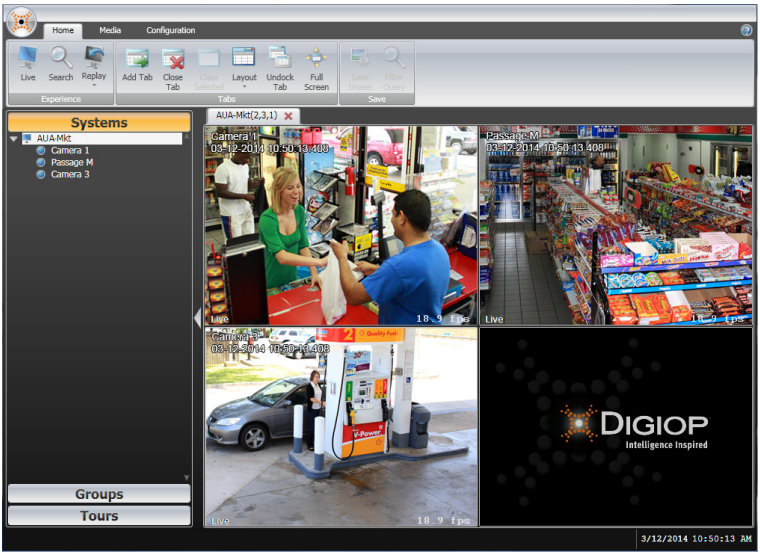
DIGIOP® Connect supports layouts with up to 36 frames with 32 different layouts. To view a video or data source:

1. Click the triangle to the left of a System name to expand its list. For Video Servers, the camera list is displayed. For Data Servers, data channels are displayed.

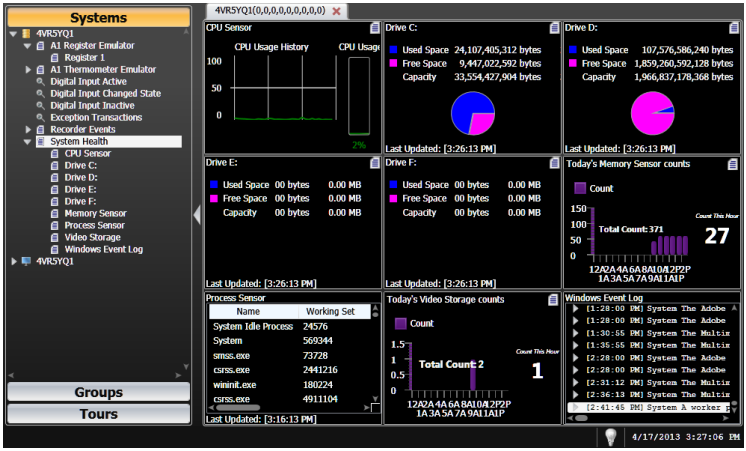
2. Click the **Home** tab, and then click the **Live** icon (or open the drop down list under the Layout icon to select the layout of camera images to be shown).

3. Click and hold down the mouse button on an item listed in the Systems list and drag it to a viewing frame. The video or data stream from that item will appear. Repeat with other items listed in the Systems or Groups lists that you want to see.

NOTE *Dragging the name of a Video Server or Data Server listed in the Systems or Groups lists to any viewing frame displays video or data from all cameras or data items monitored by that server.*



Video Server (AUA-Mkt) example showing three cameras on a Live tab

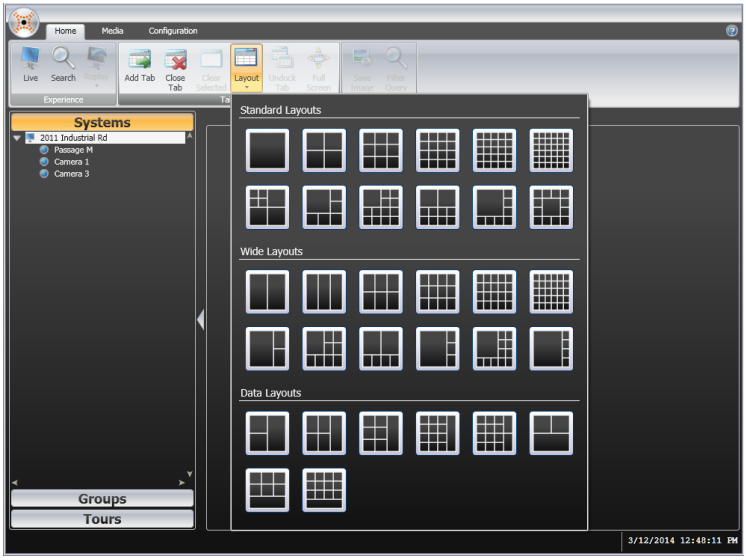


Data Server (4VR5YQ1) System Health items on a Live tab

3.1 Layout Options

You can select camera and/or data layouts that fit the specific needs of your surveillance or business intelligence objectives. Multiple tabs can be setup, with layouts of 2 x 2 grids up to 6 x 6 grids (36 viewing frames).

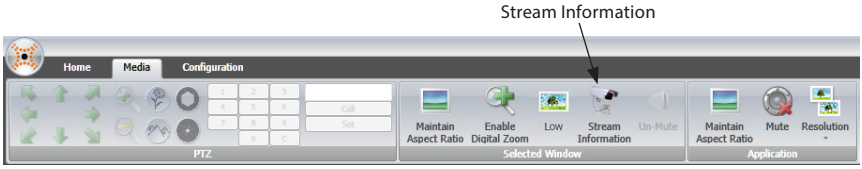
To select a layout, click the **Home** tab, click the down arrow on the **Layout** icon, then click the layout pattern you prefer to use.

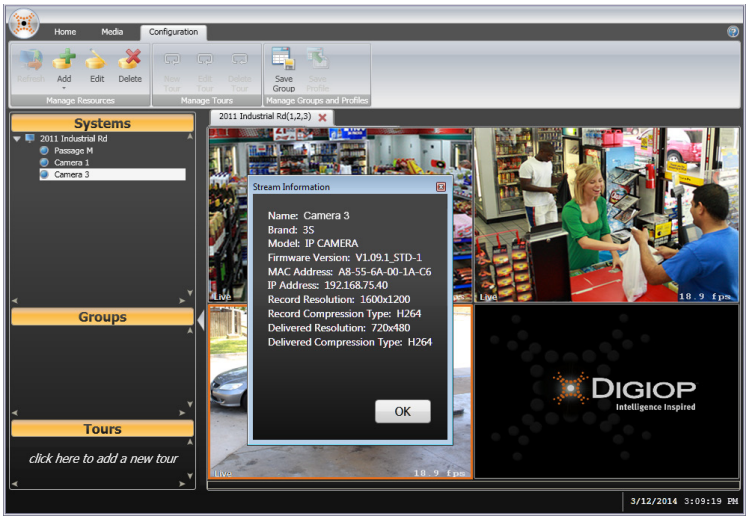


3.2 Video stream information and resolution controls

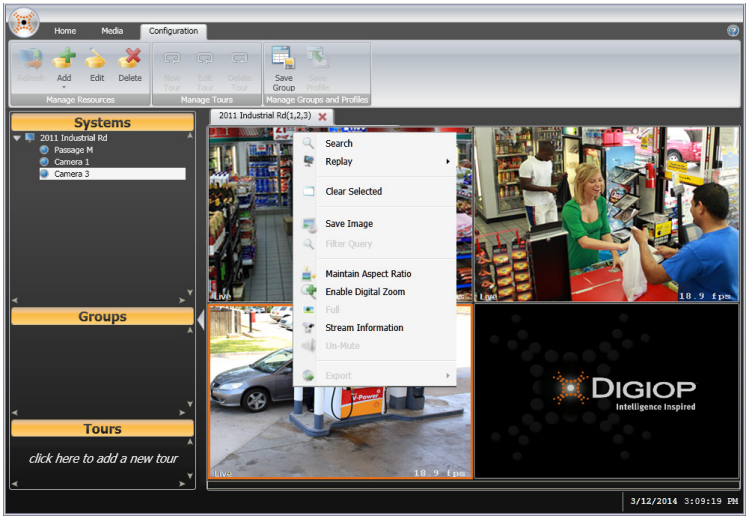
3.2.1 Stream information

The video stream information can be displayed by clicking on a Live view video frame to select it, then clicking the **Stream Information** icon in the **Media** tab. A pop-up window will appear showing the Name, Brand, Model, Firmware Version etc. of the camera.





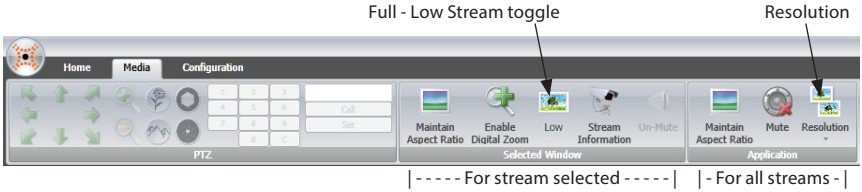
You can also open the Stream information popup window by right clicking on a video stream, then selecting the **Stream Information** option in the pop-up window. (See below.)



3.2.2 Resolution controls

For dual-stream IP cameras, you can switch between the high-resolution stream and low resolution stream in two ways:

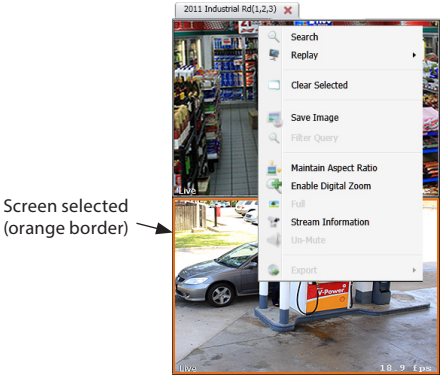
1. By selecting the video stream frame, then clicking the **Full - Low Stream toggle** icon on the **Media** tab.



2. By clicking the **Resolution** icon in the Application section of the **Media** tab. Clicking this icon offers the option to select either Low or Full stream resolution for all supported dual-stream IP cameras shown in Connect.

3.3 Right click pop-up menu

The Right click pop-up menu provides quick access to common video and data stream options such as Search, Save Image (capture), Stream information, etc. for the stream selected. This menu is opened by right clicking anywhere within the stream. Only the options applicable to the stream are enabled (bold text). This feature is used with Live view and Search streams for video and data. In the example below, the user right clicked on the lower live view screen (indicated by the orange border).



Pop-up menu options include:

- **Search**: Opens the Search tab for the selected stream. This is equivalent to selecting the stream, clicking the **Home** tab, then clicking the **Search** icon.

- **Reply**: Opens a submenu where you must select either 1, 2, 5, or 15 minutes to replay, then opens a **Search** tab and replays the previous 1, 2, 5, or 15 minutes shown in the stream.
- **Clear Selected**: Closes the stream displayed in the viewing pane.
- **Save Image**: Captures the current image in the stream, then opens a **Save Image** menu where you can name the image and select the location where it is saved.
- **Filter Query**: Used for data streams. Enables you to search the selected for data recorded in the stream based on an easy to construct logical filter. The result is shown in the viewing frame. For information on constructing a filter query, see "7.2 Applying Filter Queries to ASCII data streams" on page 47.
- **Maintain Aspect Ratio**: For video images that appear stretched to fill the viewing pane, returns the image to the aspect ratio as configured for the stream.
- **Enable** (or **Disable**) **Digital Zoom**: Enables (disables) digitally zooming in or out of the image using the mouse wheel.
- **Full** (or **Low**): Changes the stream to high (low) resolution.
- **Stream Information**: For video streams, opens a pop-up window showing the configuration of the stream including the camera, network and stream resolution and compression data.
- **Un-Mute** (or **Mute**): For video streams with audio, disables (enables) sound.
- **Export**: For use in a search tab screen. Opens a submenu where you can select a section of video to export near the position of the playback marker. You can select either Entire Timeline, +/- 15 seconds, +/- 1 minute, Next 15 Seconds, Next 1 Minute, or Next 5 Minutes.

3.4 Creating Groups

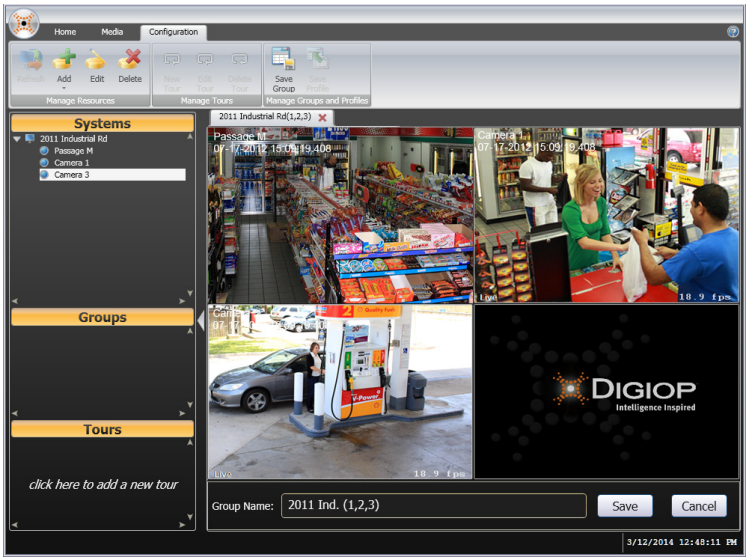
Camera images in DIGIOP® Connect can be saved as a group. The name given to a group is displayed in the Groups list. Like a system, a group can be displayed at any time. Groups can be deleted in DIGIOP® Control.

To save displayed camera images as a group name, do the following:

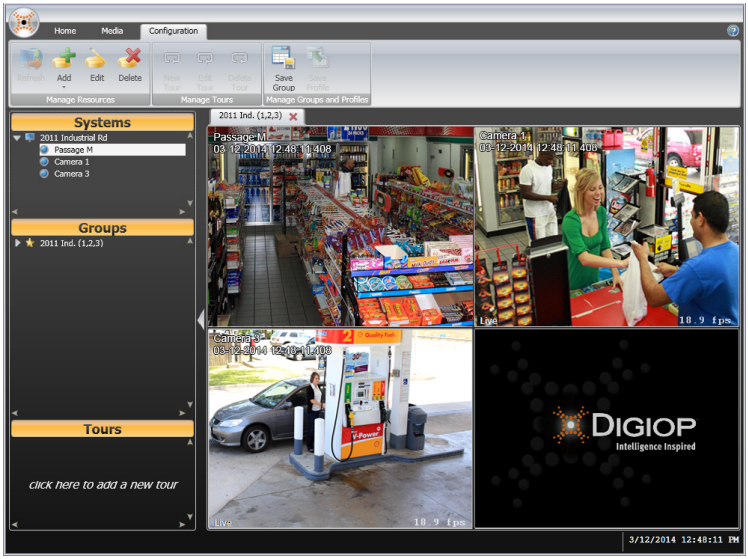
1. Select a layout option for the group.

2. Drag video and/or data sources into the viewing frames to form the group.

3. Click the **Configuration** tab, and then click the **Save Group** icon.



4. Enter a name in the Group Name field, then click **Save**. The group name will appear in the Groups list. To see the cameras in the list, click the **Groups** title bar, then click the triangle to the left of the group name you created.



To view the items in a group, do the following:

1. Click the **Home** tab, and then click the Live icon (or open the drop down list under the Layout icon to select the layout of camera images to be shown).

2. Click and hold down the mouse button on an item listed in the Groups list and drag it to a viewing frame. The video or data stream from that item will appear. Repeat with other items listed in the Systems or Groups lists that you want to see.

3.5 Creating Tour

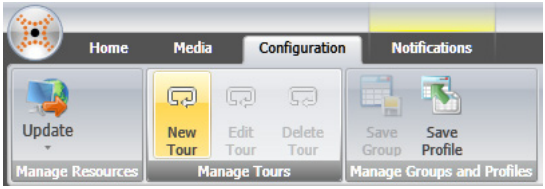
Individual camera video streams, Groups and Systems can be viewed sequentially in DIGIOP® Connect by constructing a Tour. In the Tour, each individual camera, Group, or System is assigned a dwell time and a position in the order of items that are included. The tour can be played, paused, manually stepped back to the previous image(s) shown or stepped forward to the next images.

Tours created or edited in DIGIOP ELEMENTS™ appear in DIGIOP® Connect.

To construct a tour, do the following:

1. Select the Configuration tab, then click the **New Tour** icon.

2. In the blank space below the **Tours** bar to "add a new tour."

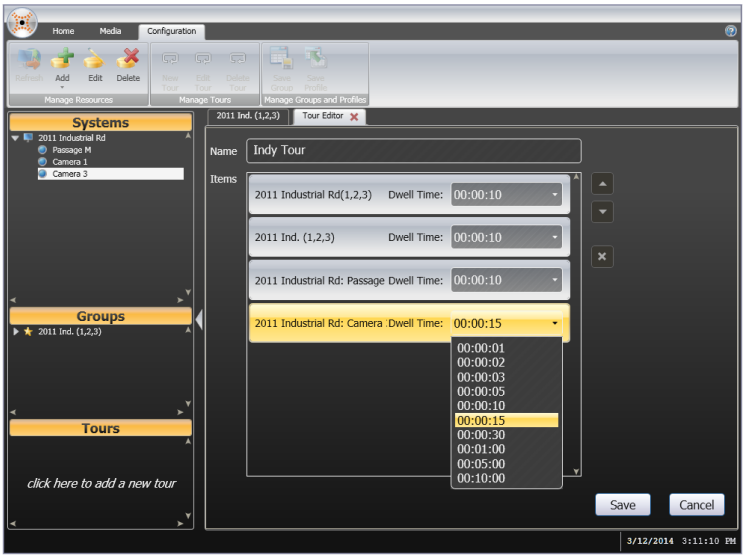


3. In the Tour Editor tab:

   a. In the **Name** field, enter a name for your tour. In the example below, the tour is named "**Indy Tour**".

   b. Drag individual cameras or data sources, systems, or groups from the left frame into the **Items** box. In the example above, the following were added:
   - The system: "2011 Industrial Rd."
   - The group: "2011 Ind."
   - The three individual cameras listed under the system "2011 Industrial Rd."

   c. For each item added to the tour, click the down arrow on the right of the entry to open dwell time selection window, then click the dwell you want to assign to the item in the tour.



d. Click **Save** to save your tour.

4. To run the tour, drag the tour name ("Indy Tour" here) to an unassigned pane in the viewing frame. Click the tour play control buttons in the upper-left corner to "**Step Back**", "**Pause**", resume "**Play**", and "**Step Forward**".

3.5.1 Edit Tour

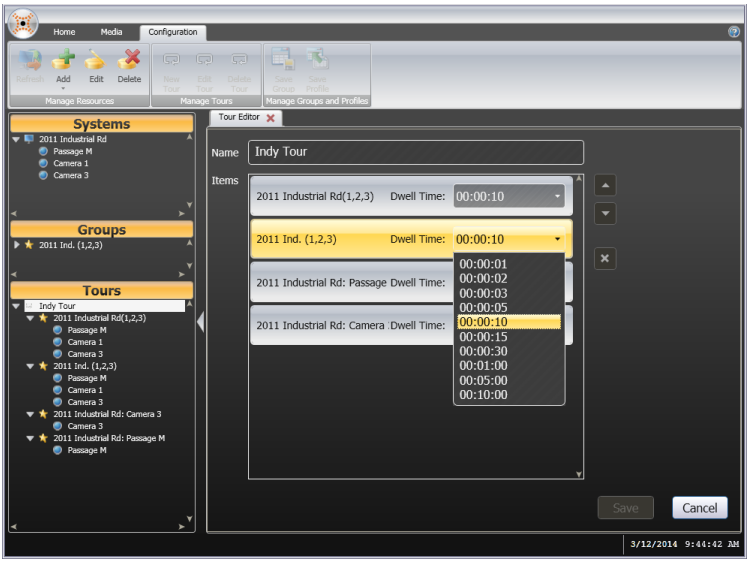
To edit a tour:

1. Close the tour if it is running.

2. Click the **Configuration** tab at the top of the window.

3. In the Tours list, click the tour entry you want to edit.

4. Click the **Edit** icon in the **Configuration** tab.



5. In the **Tour Editor** tab, click the item entry you want to change to highlight it.
   - To change the dwell time, click the down arrow on the right of the item bar, then select the new dwell time for that item.
   - To change the order of the items in the display, click the item to highlight it, then click the up and/or down buttons to the right of the Items list to reposition it in the list order.
   - To delete an item, click the item to highlight it, then click the "**X**" button to the right of the Items list.

6. Click **Save** to save the changes you made to the tour.

3.6 Viewing frame functions

Video from individual cameras or data can be:

- double-clicked within the viewing frame to toggle to and from a single-pane view
- selected (highlighted) in the Systems or Groups lists and viewed as live video or data
- played back (simultaneously affects all displayed video panes) in increments of 1, 2, 5, or 15 minutes of recorded video or data
- searched

Viewing frames can be selected (i.e., highlighted, by a orange border) by mouse click and:

- displayed as Full Screen (type the **ESC** key to revert back)
- viewed in a variety of viewing layouts (up to 32 camera images on a single tab)
- cleared: click the **Home** tab, then click **Clear Selected** to close the selection in the frame
- closed (which will remove the camera images as well as the viewing tab)

3.7 Undocking and re-docking viewing tabs

Any selected tab can be undocked from the DIGIOP® Connect software panel. This feature allows the undocked tab to be moved freely on the desktop while simultaneously viewing other tabs still attached to the software panel. See below. The undocked tab can be re-attached (docked) with a single mouse click.

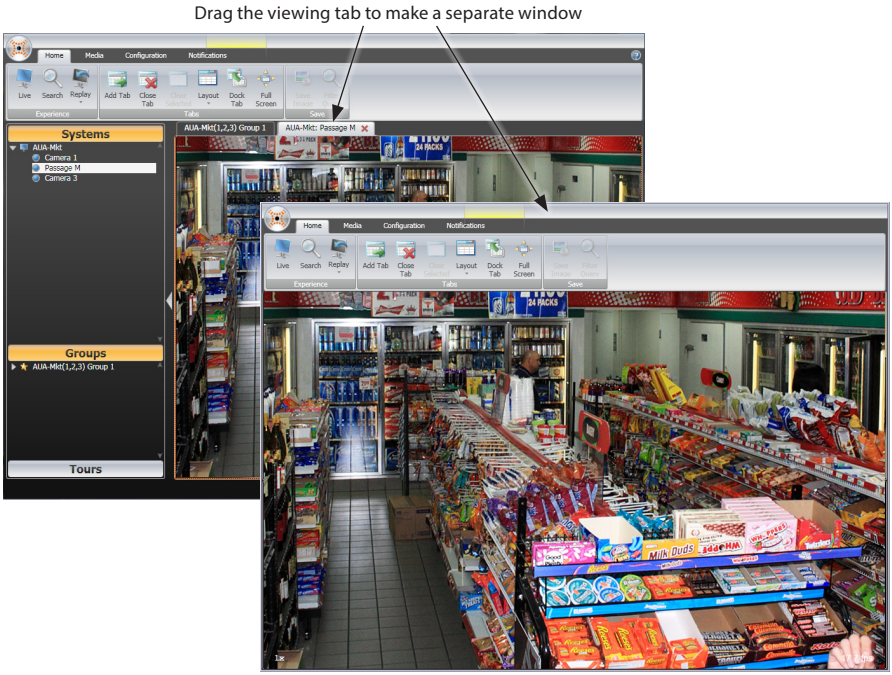
This feature allows for full multi-monitor support. For instance, it can be setup so that one tab can be showing live video from a camera, while another tab can be used for searching recorded video.

To release a viewing pane tab so that it is unattached from the DIGIOP® Connect software panel, perform the following steps:

1. Make sure the viewing tab to be released from the software window is active in the viewing area.

NOTE *The undock feature affects all frames being displayed in the tab.*

2. Either click the **Undock** tab icon, or click and hold the tab and drag it from the software window.

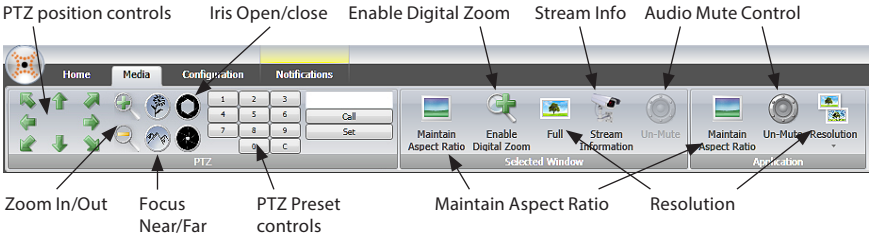


3. To re-attach the viewing tab to the DIGIOP® Connect software window, click the **Dock** tab icon.

SECTION 4
Camera Controls

Camera controls are included in the Media tab menu. The controls enabled for a camera are dependent on the features of the camera selected.

NOTE *The PTZ (Pan, Tilt, and Zoom) controls are only active when the camera selected is a PTZ camera.*



Media controls

4.1 Using PTZ camera controls

PTZ camera controls become active when the Media tab is selected and the camera selected is a PTZ camera.

The PTZ camera controls are:

- **PTZ position controls** (positioning arrows) – A mouse click on an arrow moves a PTZ camera in the direction of the arrow.
- **Zoom In** – Each mouse click on this control increases the magnification of the camera (which enlarges the view of an object for more detail) until the maximum focal length of the camera is reached.
- **Zoom Out** – Each mouse click on this control decreases the magnification of the camera until the minimum focal length of the camera is reached.
- **Focus Near** – Each mouse click on this control enhances the sharpness of objects that are close by.
- **Focus Far** – Each mouse click on this control enhances the sharpness of objects that are far away.
- **Open Iris** – Each mouse click on this control increases the camera iris (aperture), allowing more light to pass through the lens. This makes the picture brighter.
- **Close Iris** – Each mouse click on this control decreases the camera iris, reducing the amount of light passing through the lens. This makes the picture darker.
- **Preset Controls** – These controls are used to aim a PTZ camera at a predesignated target. Refer to **Using camera preset controls (PTZ only)** for more information.

4.2 Using camera preset controls (PTZ cameras only)

The Preset Controls allow you to setup a PTZ camera to quickly move to preset target. Each target position is assigned a number. When the camera is selected and the number is "Called", it quickly moves to that target.

- **Set** – Click to assign a number to the position currently being used by the camera.
- **Call** – Click to move the camera to the pre-designated position.

To assign a preset number to a camera position:

1. Use the PTZ position controls to aim the camera at a target.
2. Click the number to assign to the camera position.
3. Click **Set** to assign the set position to the number.
4. Repeat Steps 1-3 above for each additional camera.

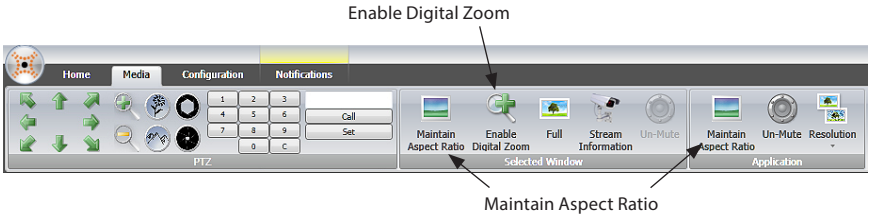
To Call the camera to a preset position:

1. Select the camera viewing frame.
2. Click the number assigned to the camera position you want see. The number will appear in the blank box.
3. Click **Call**.

4.3 Using digital zoom camera controls

The controls listed below will work with all digital video cameras (including PTZ cameras).

The right half of the Media toolbar includes two sections: Selected Window and Application. Clicking an icon in the **Selected Window** section applies the tool to the viewing frame that is selected (framed with an orange border). Tools in the **Application** section apply to all viewing frames.

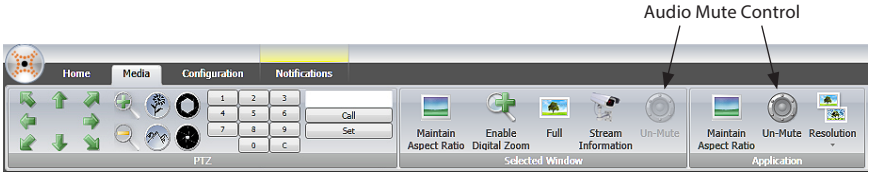


The digital zoom video camera controls are:

- **Maintain Aspect ratio** – Click this control to toggle between the original width and height of the video (whatever the camera is set to), and the width and height of the viewing pane. The video will assume the size (ratio of the width and height) of the viewing pane.
- **Enable Digital Zoom** – To use this feature, select the camera pane, click the **Enable Digital Zoom** icon in the Media menu (see above), then use the "+" and "-" keys on the keyboard or the mouse wheel to zoom in and out.

4.4 Using audio controls

The right half of the Media toolbar includes two sections: Selected Window and Application. Clicking an icon in the Selected Window section applies the tool to the viewing frame that is selected (framed with an orange border). Tools in the Application section apply to all viewing frames.



Application controls

The Volume controls are available for the selected viewing frame (Selected Window) and for the all viewing frames (Application). These controls include:

- **Mute** – Clicking this control mutes the sound from the camera selected.
- **Un-mute Selected Audio** – Clicking this control enables the sound from the selected camera to be heard. The volume controls of the computer and of the DIGIOP® Connect software can be used to increase or decrease the volume level.

SECTION 5
Searching Recorded Video

Connect provides different methods for finding recorded video. These methods include:

- Replay Search (Quick Video Search)
- Calendar Search
- Thumbnails Search

Use Replay Search find recorded live video for events that occurred within the previous 15 minutes. For older events, the Calendar and Thumbnail searching features provide a precise way to find recorded video. Regardless of the type of search used, a user can switch from recorded video to live video by clicking a viewing tab. Also, live video and recorded video can be viewed concurrently through use of the Undock feature.

NOTE *Multiple recordings can be searched simultaneously by using the Layout icon and selecting a view where several camera images are displayed within a viewing tab.*

NOTE *During a Search, camera(s) selected in the Systems or Groups lists are displayed above the Timeline. All cameras displaying images are selected during a search.*

5.1 Playback (transport) controls

Video playback controls are displayed whenever the Replay or the Search icon is clicked, or when the Replay or Search viewing tabs are active. The playback controls for video searching include:

- **Pause** – Pauses the video being played.
- **Play** – Starts playing the video from the point where the scrub bar is located on the Timeline.
- **Step Forward** – Advances the search playback one frame at a time.
- **Fast Forward** – Increments the speed of video play each time it is clicked. Increments are 2x, 4x, 8x, 16x, 32x, 64x, and 128x.

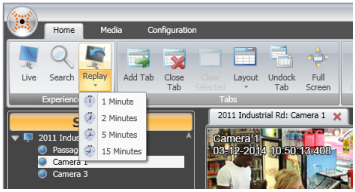
5.2 Replay search (quick video search)

Replay search allows a user to search for and replay video in the previous 15 minutes. To use Replay search, do the following:

1. Select the Live viewing tab with the cameras you want to use for the Replay search.

NOTE *It does not matter if a camera frame is selected (highlighted). Replay affects all of the camera images being displayed.*

2. With the Home tab selected, click the down arrow on the Replay icon to replay 1, 2, 5, or 15 minutes of recorded video.



3. Use the recorded video transport controls to pause, play, step forward or fast forward playback.

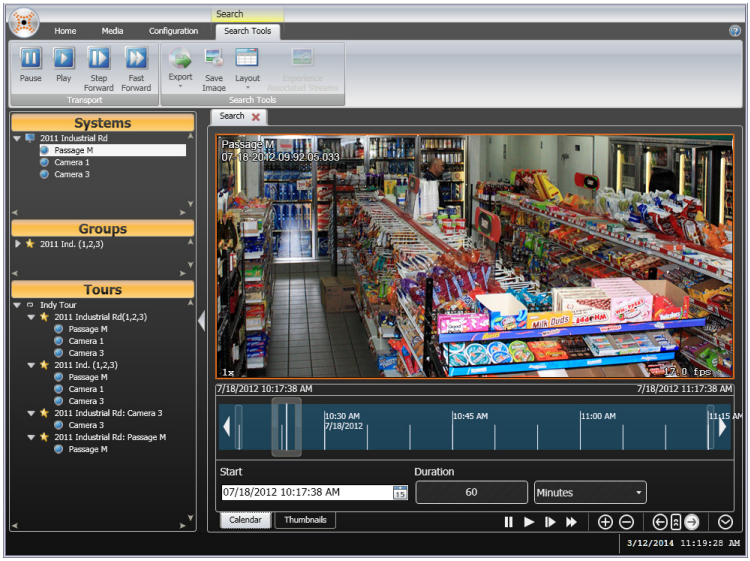
5.3 Calendar and Thumbnails searching

The Calendar and the Thumbnails searching methods allow a user to search recorded video in increments that can be set as seconds, minutes, hours, days, or months.

To implement one of these search methods, do the following:

1. Select the camera that you want to search from the Systems or Groups list.

2. Click the Home tab, and then click the Search icon. A window similar to that shown below will be displayed.



Searching video

3. Click either the **Calendar** or **Thumbnails** tab. These tabs are located beneath the timeline.

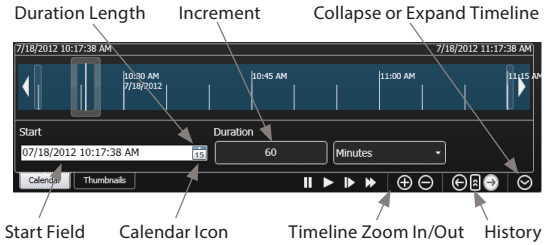
4. Use the video transport controls to review the video segments.

   For details on using either search method, refer to the Calendar search method and Thumbnails search method sections below.

NOTE *Use the Calendar view first to establish the time range of video to be searched. The Thumbnails view is another way to view the video once the time range is determined. The Timeline is used to mark the time frame of the event until the exact time and video of the event or detail is found.*

5.3.1 Calendar search method

Calendar video search allows you to search video by date, time, and duration with the use of a timeline.



Calendar search method

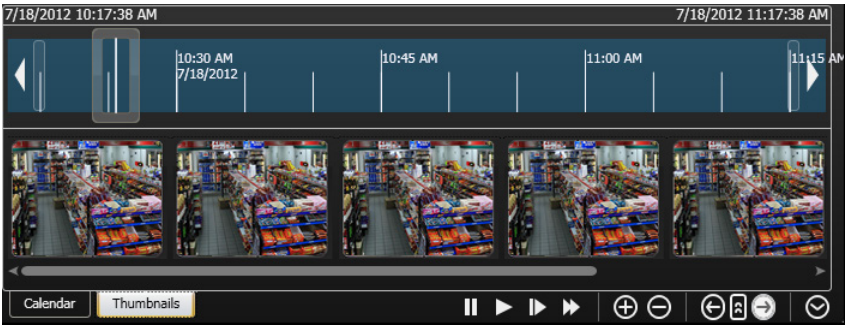
Use the following guidelines to configure the time range of the search:

- In the Start field, click the date entry or click the calendar icon to open a calendar window. Click the start date in the calendar, and then click the calendar icon again to close the calendar window.
- Clicking and holding the mouse pointer on the characters in the month, day, year, hour, minute, or second fields produces a selector cursor. Sliding the cursor upwards or downwards increments or decrements the value in that field.
- Use the Duration drop down list, select a time increment: seconds, minutes, hours, days, or months.
- Edit a duration number (length) in the Duration field.

After the time range is established, the timeline can be used to refine the search. The Start field can be collapsed (hidden) or expanded (shown) by clicking icon in the lower right corner.

5.3.2 Thumbnails search method

Thumbnails search method presents 10 thumbnails of video frames, spaced across a defined time range, to help locate a detail or event of interest.



Thumbnails search method

Use the following guidelines to perform a Thumbnails search:

- Clicking the small right or left arrows at either end of the thumbnails bar shifts the thumbnails left (forward in time) or right (back in time) within the time range of the video frames being searched. This also affects the timeline, increasing or decreasing the range of time shown.
- Clicking on a thumbnail moves the playback time pointer to the thumbnail's point in time.
- Resting the cursor on a thumbnail expands the image.

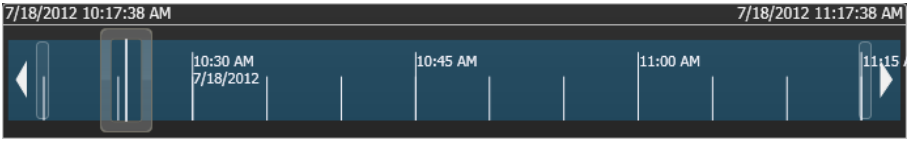
Highlighted thumbnail range

NOTE *A slider bar, for adjusting the timeline view forward or backward, may be visible directly under the thumbnails depending on the time range of the video selected.*

- Placing the cursor on a thumbnail and holding the cursor there for about one second will enlarge the view of that thumbnail. The time and date of the video frame is also displayed in the enlarged view. If the cursor is not moved from the thumbnail, the enlarged view stays open for 15 seconds.

TIMELINE USAGE (CALENDAR AND THUMBNAILS)

The Timeline tool is a graphical representation of a defined time range of recorded video frames. It is used within the Calendar and Thumbnail Search tabs. Since recorded video frames are equal to a set amount of time, observing video within a timeline helps a user determine the exact time that an event or detail occurred.



Timeline Tool

Use the following guidelines to use the Timeline tool for searching video:

- Scrub Bar – Scrub Bar allows a user to navigate across a range of recorded video.

NOTE *If multiple recordings (cameras, viewing panes) are simultaneously being searched, all of the viewing panes will show the result of the scrub when the scrub bar is released.*

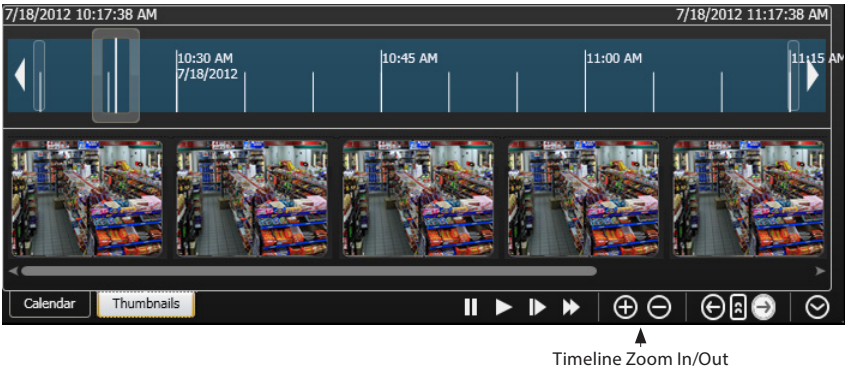
- Use the mouse cursor to drag the scrub bar back and forth along the timeline to move forward or backward within the time range of the video being searched.

Dragging the scrub bar

- Increasing or decreasing the range of the timeline determines how many frames of video are used within the time grid.
- The time range can lengthened or decreased by dragging the handles at each end of the timeline. When using this feature, the handle is highlighted and the cursor changes to an increase/decrease cursor.

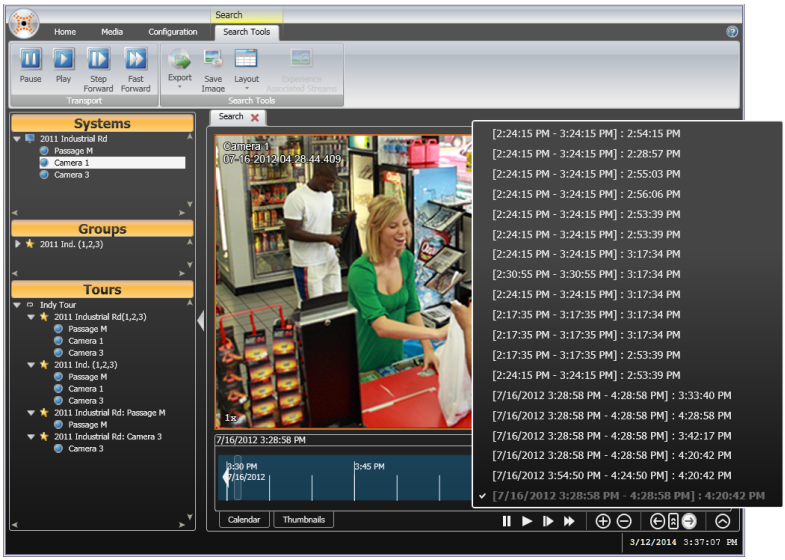
Time range increase/decrease

- Use the mouse to drag the timeline back and forth to adjust the start and end times of the video being searched.
- The Timeline Zoom In or Timeline Zoom Out buttons are used to expand (stretch) or contract (shrink) the timeline displayed. One click on either button changes the compression by 50%.



Narrowing the Search to an Event

- A record of each action taken during a search is recorded in a Timeline History. Each record includes the time the action was taken and the time range of the video searched. This feature allows you to quickly return to a point of interest during a search by clicking on the record. Click the History toggle button to display the record list; click it again to close it. Clicking the arrows on either side of the toggle button moves forwards or backwards within the time ranges in the history.



Example Timeline History

- The Timeline History is saved until the Search (tab) is closed, or until the top or bottom end-point of the history is highlighted and another action is taken on the timeline.

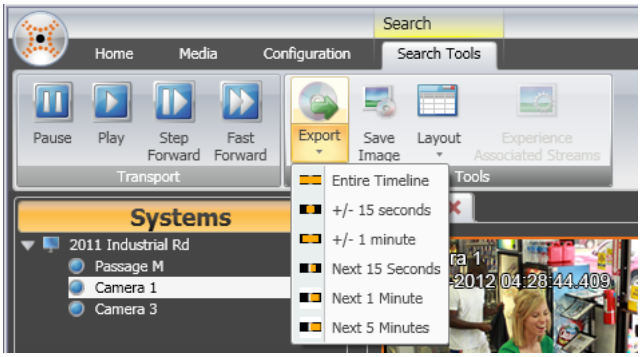
5.4 Exporting video from a search

The range of video selected during a search can be exported to a drive connected to the computer using DIGIOP® Connect. This is useful, for example, if the video needs to be given to police or other authorities. A viewer can be exported with the video.

To Export video:

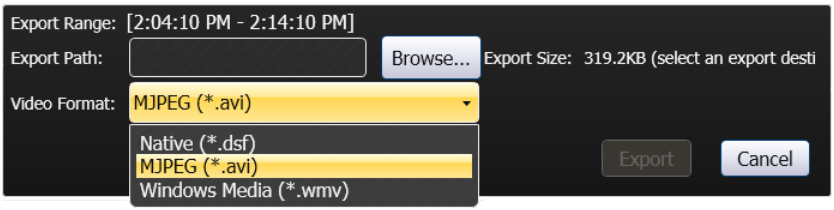
1. Establish the time range of the video to be exported. Refer to the Calendar and Thumbnails Searching.

2. Click either the top half of the **Export** icon (default for exporting the entire timeline range), or click on the bottom half of the Export icon and select one of the options.



Selecting video range for export

3. After the time range of the video is selected, an Export menu is displayed below the camera frames. Click **Browse** to select the destination (Export Path) where the video will be sent, and select the file format from the drop-down list. The Export button becomes active when the export path is established.

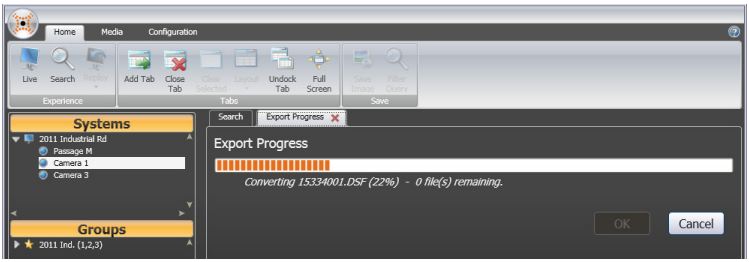


Export menu

4. If you want to include a video viewer with the video clip being exported, check the Include Viewer box.

5. Click **Export**. An Export Progress tab will appear.

6. When the Export process is complete, the Export Progress tab will close.



5.5 Saving images from searched video

A video image (one frame of video) within a search can be saved as a JPG (.jpg) file to your computer or to another drive connected to the computer. Images from Replay Search, Calendar Search, and Thumbnails Search can be captured and saved. To capture and save a video image:

1. Find the image to be saved.
2. Click the **Save Image** icon. This will capture the image, and the Save Image window will open.
3. Browse to select the destination where the captured image will be sent.
4. Enter a name for the file.
5. Click **Save**.

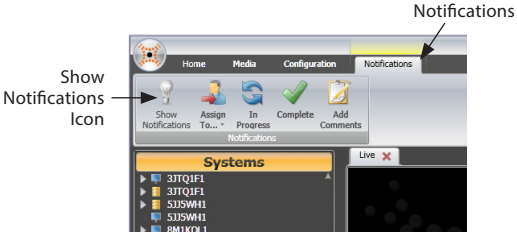
SECTION 6
Notifications

Notifications are configured by a system administrator in DIGIOP® Control and displayed when using DIGIOP® Connect. Notifications can be established to alert users about various events occurring in the system, such as video loss, system offline, and system not recording. Notifications events can be assigned to users (Assign To...) and removed from the list, and users can change the status (In Progress) of the event and enter a comment about it. The Notifications feature follows existing rules for permissions in DIGIOP® Control.

The DIGIOP ELEMENTS™ Notification feature is available to systems hosted remotely by DIGIOP®. To configure notifications for your hosted system, login to **elements.digiop.com** and enter your credentials including customer name.

6.1 Notifications menu

The Notifications menu appears in DIGIOP® Connect after logging into your system(s) through the site **elements.digiop.com**.



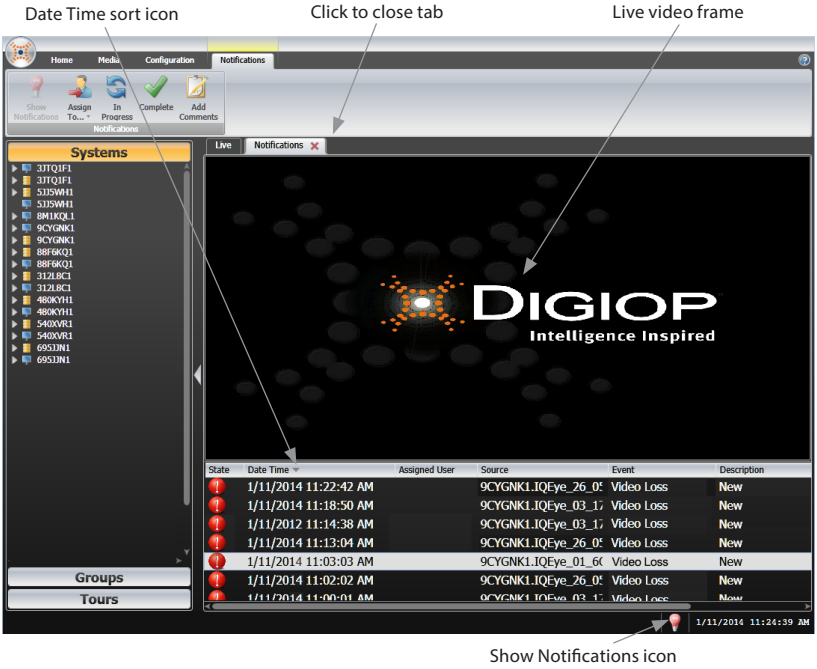
The Notifications menu includes 5 icons:

- **Show Notifications**: For opening the Notifications tab.
- **Assign To...** : For assigning a notification to a system user. Only a system administrator can use this feature.
- **In Progress**: For flagging a notification for which action is being taken. Only a system administrator or the user Assigned To.. the event can use this feature.
- **Complete**: For removing a notification from the list. Only a system administrator can use this feature.

- **Add Comment**: For including a comment (Description) with the notification entry. Only a system administrator or the user Assigned To.. the event can use this feature.

6.1.1 Show Notifications icon

Open the Notifications menu, then click the **Show Notifications** icon to open the Notifications tab. The Show Notifications icon is red when notifications are present. Otherwise, it is gray.



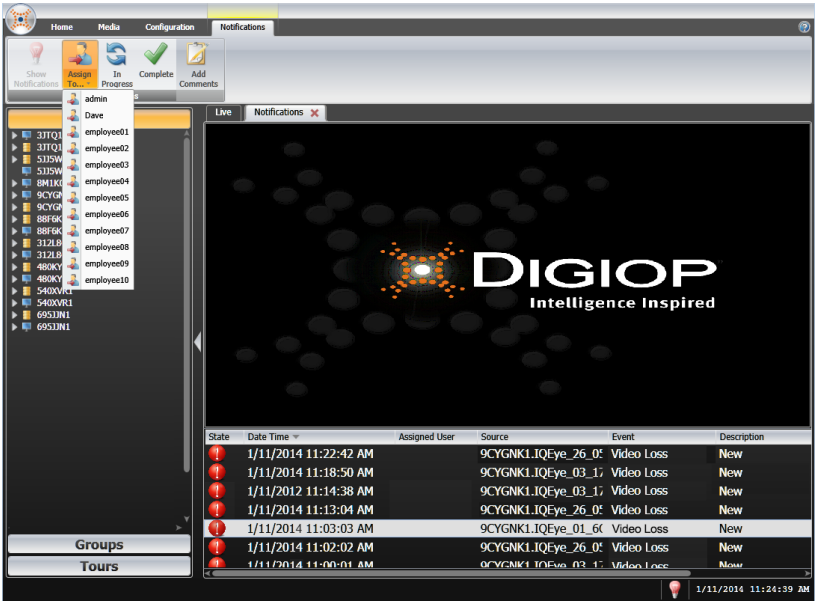
Initially, the notification entries listed are sorted by time, with the newest at the top. In the Notifications tab, you can:

- Reverse the list order by clicking the Date Time sort icon (▼ or ▲).
- Scroll through the list of notifications by placing your mouse cursor in the list, then rolling the mouse wheel to scroll up or down, or by using the scroll bar on the right.
- Rearrange the columns by dragging the column header label to another position in the header.
- Expand or contract the width of a column by dragging the column boarder (near the column label) left or right.
- Close the Notifications tab by clicking the red ✕ on the tab label.

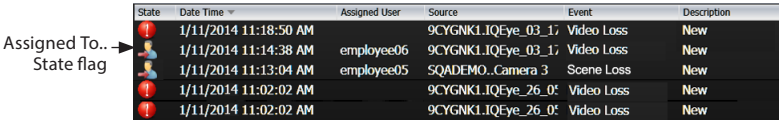
Select a notification by clicking on it. When a notification is selected, it is highlighted, and it can be **Assigned To...** a user, change state (to **In Progress**), include a comment (**Add Comment**), or deleted (**Complete**). If the notification event is for a camera, and live video from the camera is available, it will appear in the frame above the notification list.

6.1.2 Assign To... icon

To assign a notification to a user, click the notification you want to assign (highlights the notification), click the **Assign To...** icon, then scroll down the list and click the user in the drop-down list. If a notification is for a camera event and the camera video is available, it will appear in the window above the notifications list.

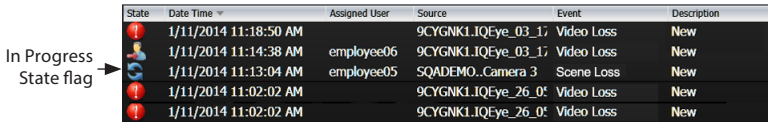


A notifications list with assigned users is shown below. Note that the State flag reflects an assigned status.



6.1.3 In Progress icon

The **In Progress** icon enables you to apply an **In Progress State** flag to a notification. To assign the flag, click the notification you want to flag, then click the In Progress icon. The State icon of the notification will change to the **In Progress State** icon.



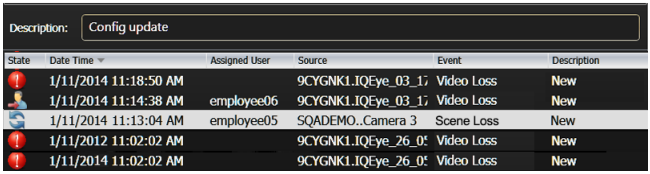
6.1.4 Complete icon

To remove a notification entry from the list, click on the notification you want to remove (to highlight it), then click the **Complete** icon.

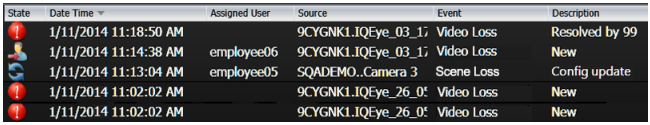
6.1.5 Add Comments icon

You can change the entry in the Description column for a notification by:

- Click the notification you want to comment.
- Click the **Add Comments** icon.
- In the Description entry field that opens, type the comment.
- Press **Enter**.



A notifications list with comments is shown below.



6.2 Notifications Event types

The DIGIOP ELEMENTS™ V8.8 release supports the following types of Notification Events:

- **Not Recording**: The server stopped recording to the database. This event is reported when it occurs, and once per hour during a sustained outage.
- **System Offline**: The system does not respond to a ping command. This event is reported when it occurs, and once per day during a sustained outage.
- **Video Loss**: No video signal was received by the DVR. This event is reported when it occurs, and once per hour during a sustained outage.

SECTION 7
Data Server Features

DIGIOP® Connect can display data streams from POS systems and other sources, and System Health data elements from the DIGIOP® Control. The System Health elements includes System the Windows Event Log, CPU activity sensor, Process sensor, hard drive and hard drive free/used space sensor, memory sensor, etc., that are useful in monitoring the state of the system hardware.

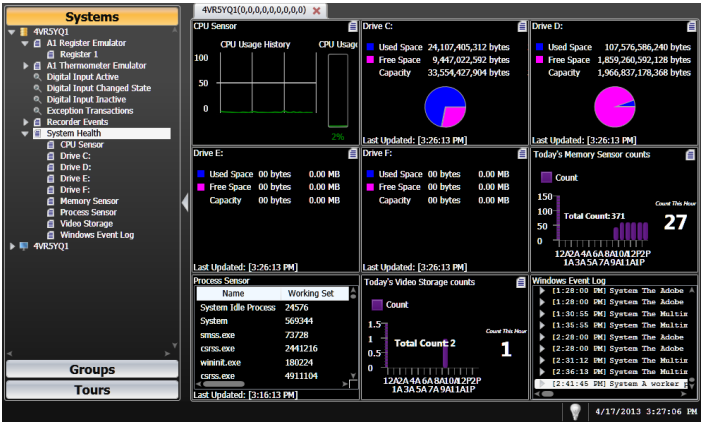
DIGIOP® Connect will also search streams of ASCII data, such as the Windows Event Log, for specific types of entries, or entries with specific messages (character strings).

7.1 Viewing Data Server data

Viewing Data Server data in DIGIOP® Connect can appear in several different ways, depending on the device you are viewing data from. For instance, some devices such as cash registers can display the volume of data or the actual data; the system server can display "health data" such as CPU and Memory usage, Video Storage counts, drive usage statistics, etc. Also, some data devices allow the Connect user to activate and deactivate digital outputs from those devices for a variety of purposes, such as unlocking doors. Some examples are shown below.

7.1.1 Viewing System Health statistics

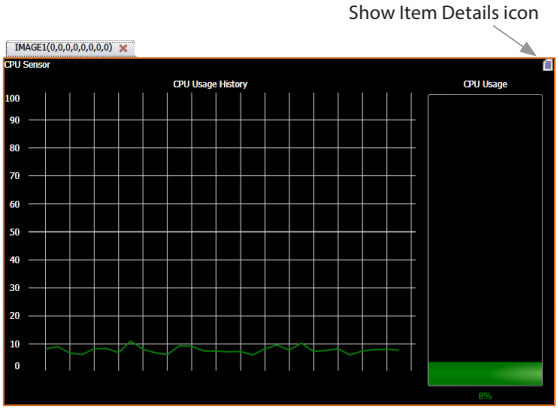
To view the statistics DIGIOP ELEMENTS™ automatically accumulates on the server system, open the DIGIOP ELEMENTS™ Data server device, then drag the System Health entry into a viewing pane. A display similar to that shown below will appear.



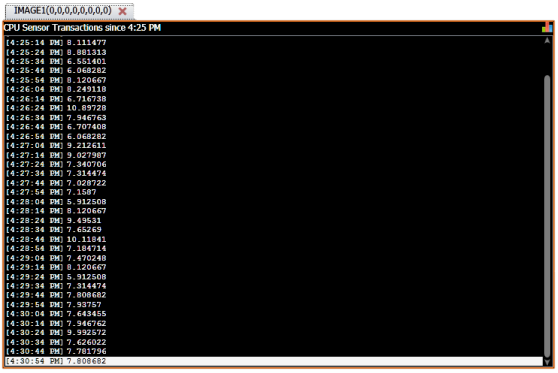
You can also drag individual items into a viewing pane.

7.1.2 Viewing graph and list data

Most data can be viewed as a bar graph that shows counts of ASCII messages received, or the actual data in readable format.

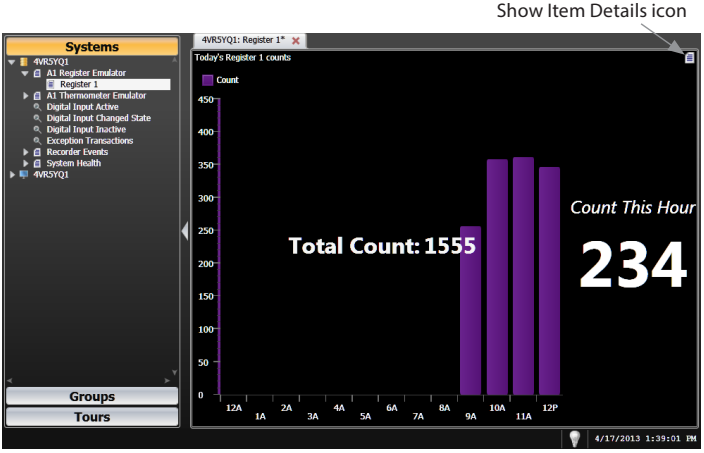


Click the **Show Item Details** icon to switch between the bar chart and data received in readable format:

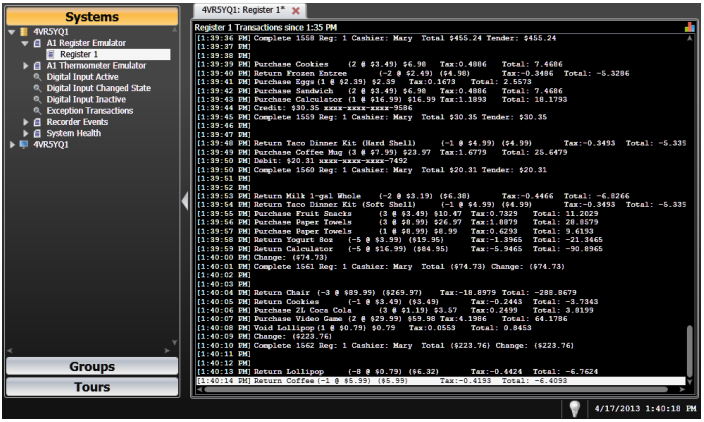


7.1.3 Viewing cash register data

Cash register data can be viewed as a bar graph that shows counts of ASCII data parcels received, or you can view the actual data in readable format.



Click the **Show Item Details** icon to switch between the bar chart and data received in readable format:



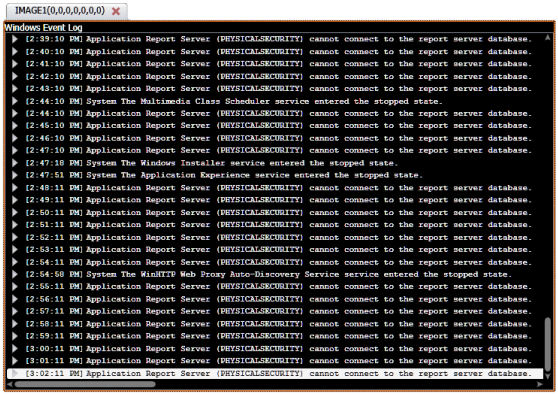
7.2 Applying Filter Queries to ASCII data streams

DIGIOP® Connect Filter Query is a special feature for use with ASCII data streams such as the Windows Event Log or other System Health data elements. The Filter Queries are easy to construct logical (Boolean) expression search filters to detect and extract specific information from the data. A complete set of Boolean operators (=, <>, >, >=, <, <=, contains, does not contain) are provided. You can also create multiple logical Boolean expressions and **AND** or **OR** them together to create more specific filters.

7.2.1 Example 1: Windows Event Log data stream

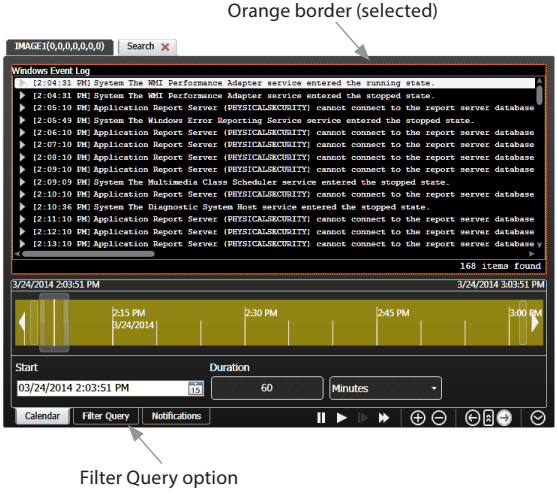
The following example shows how to search a Windows Event Log stream for messages that indicate an Warning message.

1. Open the Windows Event Log data element into a viewing pane.



Note that this data stream does not include a graphic characterization. Therefore, the **Show Item Details** icon is not preset.

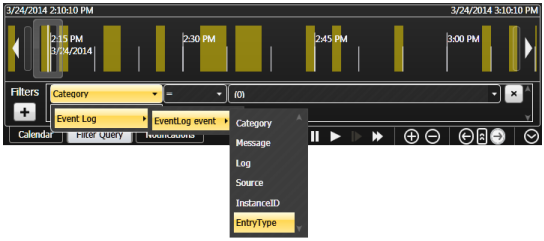
2. Select the **Home** tab, then click the **Search** icon, then click on the data element title bar to select it. When selected, the data will be surrounded by an orange border (see below) and the Filter Query option will appear at the bottom of the frame.


Orange border (selected)
IMAGE1(0,0,0,0,0,0,0)
Search
Windows Event Log
[2:04:31 PM] System The WMI Performance Adapter service entered the running state.
[2:04:31 PM] System The WMI Performance Adapter service entered the stopped state.
[2:05:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:05:49 PM] System The Windows Error Reporting Service service entered the stopped state.
[2:06:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:07:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:08:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:09:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:09:09 PM] System The Multimedia Class Scheduler service entered the stopped state.
[2:10:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:10:36 PM] System The Diagnostic System Host service entered the stopped state.
[2:11:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:12:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
[2:13:10 PM] Application Report Server (PHYSICALSECURITY) cannot connect to the report server database
168 items found
3/24/2014 2:03:51 PM
3/24/2014 3:03:51 PM
2:15 PM
3/24/2014
2:30 PM
2:45 PM
3:00 PM
Start
Duration
03/24/2014 2:03:51 PM
60
Minutes
Calendar
Filter Query
Notifications
Filter Query option

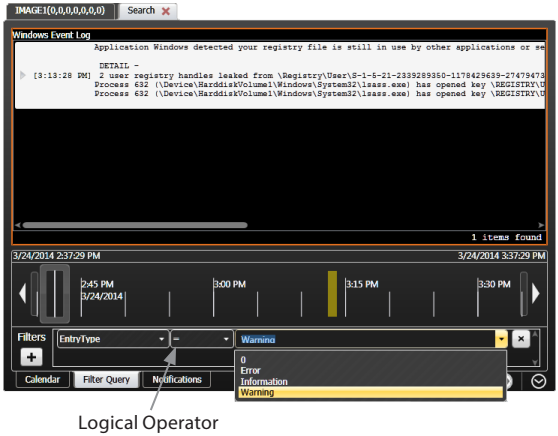
3. Adjust the timeline using the search field controls (**Start** and **Duration**) to define the time span over which you want to search for specific data.

4. Click the **Filter Query** tab in the search controls section to select it, then click the phrase ***Add new filters to fine tune query results***.

5. Click the **Category** drop down list and select **Event Log**, then select **EventLog Event**, then select **EntryType**. See below.

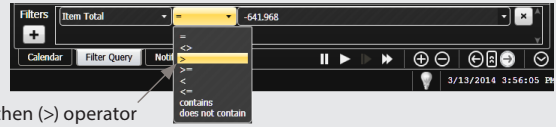


6. In the image below, notice that the field to the left of the operator now contains **EntryType**. Open the drop down list in the field to the right of the operator, then select **Warning** (for this example). The data in the Windows Event Log display will immediately show the result of the query.



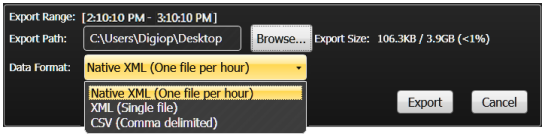
NOTE

The example above has only one result. However, for some queries, you can AND or OR additional conditions to your filter by clicking the + button under the **Filters**.
For filters that search for specific or ranges of values, open the operator drop down list and select the value you want to use. For instance, you can search the Processor Sensor for values above a specific level of usage.



Greater then (>) operator

7. To save the filtered data, click the **Export** icon at the top of the window to open the Export save parameters menu.



8. In the export menu, browse to select the location where the file will be saved, then open the **Data Format** drop-down list to select the file type. Click the **Export** button to the right to perform the export. If you saved the file in XML format, Connect will also save links to Viewer and a .bat file to open the file in Viewer.

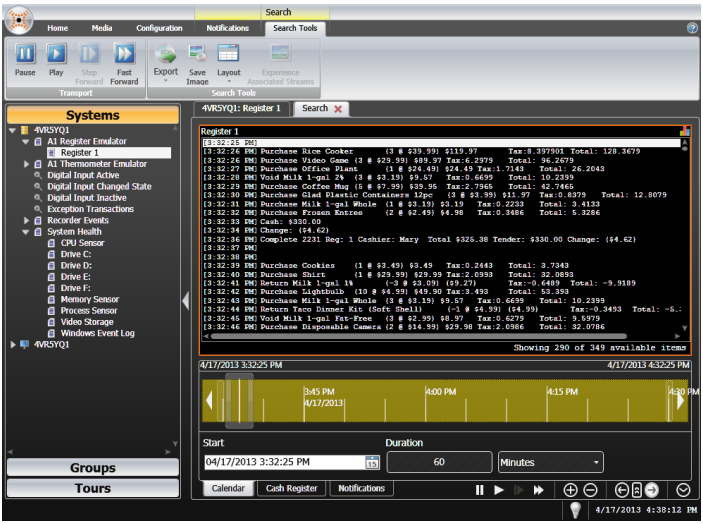
7.2.2 Example 2: Applying Filter Queries to POS data

DIGIOP® Connect Filter Query is a special feature for use with Point of Sale (POS) ASCII data that allows you to create Boolean expression search filters to extract specific information from the data. The following example shows how to search the data stream for all transaction totals over $200.00. Use this approach to search similar data streams for specific content. To setup this filter and export the data, do the following:

1. Drag the Register 1 data device into a viewing pane (see above).

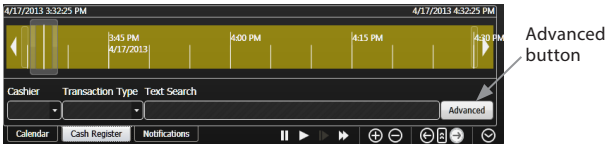
2. Click the **Show Item Details** icon to display the readable data.

3. Select the **Home** tab, then click the **Search** icon. DIGIOP® Control will open the Search tab and Search viewing pane.



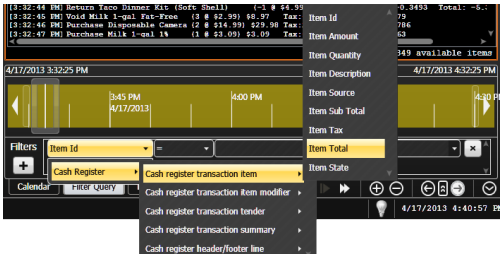
4. Adjust the timeline using the search field controls (**Start** and **Duration**) to define the time span over which you want to search for specific data.

5. Click the **Cash Register** tab in the search controls section (at the bottom of the pane, then click the **Advanced** button on the right.



6. In the **Filters** section, click the line ***Add new filters to fine tune query results***.

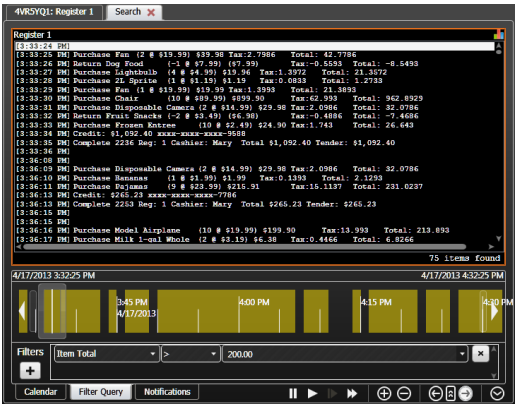
7. In the **Filters** section, open the drop-down list in the **Item ID** field and select the following:
Cash Register ▶ Cash register transaction item ▶ Item total.



8. In the operator field, open the drop-down list and select the "**>**" (greater than) symbol.

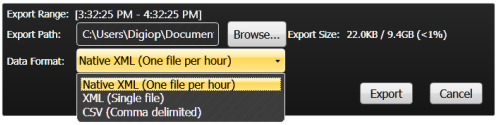
Greater then (>) operator

9. In the data field, enter **200.00**. Click the "+" icon to add additional filter criteria. All filter criterion you define will "anded" together to produce a single filter applied to the data recorded during in the time span.



Notice that the data shown above was sorted by the filter and the timeline reflects when data that resulting from the filter occurred.

10. To save the filtered data, click the **Export** icon at the top of the window to open the Export save parameters menu.



11. In the export menu, browse to select the location where the file will be saved, then open the **Data Format** drop-down list to select the file type. Click the **Export** button to the right to perform the export. If you saved the file in XML format, Connect will also save links to Viewer and a .bat file to open the file in Viewer. For more information about Viewer, refer to the *DIGIOP® Control V8.8 User Manual*.

7.3 Using digital outputs

Some data devices compatible with DIGIOP ELEMENTS™, such as the infinias™ Intelli-M Access server, can include digital outputs used to control many other devices such as door locks, garage doors, etc. In the example is shown below, click the Lock / Unlock or Activate / Deactivate icons to change the status of the device. The camera associated with the lock icons is a view of the space outside of the door.